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**SKIN-MODIFYING AGENT****Publication Number:** 2000-212090 (JP 2000212090 A) , August 02, 2000**Inventors:**

ITO MITSUKO

**Applicants**

ITO MITSUKO

**Application Number:** 11-009145 (JP 999145) , January 18, 1999**International Class:**

A61K-031/60

A61K-007/40

A61P-017/00

A61P-031/10

A61K-031/045

A61K-031/05

A61K-031/155

A61K-031/473

A61K-031/4738

A61K-033/30

**Abstract:**

**PROBLEM TO BE SOLVED:** To obtain a skin-modifying agent, excellent in skin disinfectant property, skin sterilizing property, skin permeability, skin dropping property and skin regenerating property to a part for which modification of skin is required. **SOLUTION:** This skin modifying agent comprises a mixture of a carrier with one kind of salicylic acid and zinc oxide and at least one kind of phenols, acrinol, alkylpolyaminoglycin, berberine benzoate, dequalinium chloride, benzalkonium chloride, benzethonium chloride, chlorhexidine chloride, chlorhexidine gluconate solution, dequalinium acetate and hinokithiol. The skin modifying agent is obtained by mixing a carrier with 1-50 g one kind of salicylic acid and zinc oxide and 1-50 g at least one kind selected from among resorcin, acrinol, alkylpolyaminethylglycin, berberine benzoate, isopropylmethylphenol, dequalinium chloride, benzalkonium chloride, benzethonium chloride, chlorhexidine chloride, chlorhexidine gluconate solution, dequalinium acetate and hinokithiol. **COPYRIGHT:** (C)2000,JPO

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## Patent Abstracts of Japan

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APPLICANT : ITO MITSUKO;

INVENTOR : ITO MITSUKO;

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A61P 31/10 A61K 31/045 A61K 31/05  
A61K 31/155 A61K 31/473 A61K  
31/4738 A61K 33/30

TITLE : SKIN-MODIFYING AGENT



ABSTRACT : PROBLEM TO BE SOLVED: To obtain a skin-modifying agent, excellent in skin disinfectant property, skin sterilizing property, skin permeability, skin dropping property and skin regenerating property to a part for which modification of skin is required.

SOLUTION: This skin modifying agent comprises a mixture of a carrier with one kind of salicylic acid and zinc oxide and at least one kind of phenols, acrinol, alkylpolyaminoglycin, berberine benzoate, dequalinium chloride, benzalkonium chloride, benzethonium chloride, chlorhexidine chloride, chlorhexidine gluconate solution, dequalinium acetate and hinokithiol. The skin modifying agent is obtained by mixing a carrier with 1-50 g one kind of salicylic acid and zinc oxide and 1-50 g at least one kind selected from among resorcin, acrinol, alkylpolyaminethylglycin, berberine benzoate, isopropylmethylphenol, dequalinium chloride, benzalkonium chloride, benzethonium chloride, chlorhexidine chloride, chlorhexidine gluconate solution, dequalinium acetate and hinokithiol.

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Ref	Items	Index-term
E1	1	AN=JP 9991448
E2	1	AN=JP 9991449
E3	1	*AN=JP 999145
E4	1	AN=JP 9991450
E5	1	AN=JP 9991451
E6	1	AN=JP 9991452
E7	1	AN=JP 9991453
E8	1	AN=JP 9991454
E9	1	AN=JP 9991455
E10	1	AN=JP 9991456
E11	1	AN=JP 9991457
E12	1	AN=JP 9991458

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S5 1 AN='JP 999145'

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XRAM Acc No: C00-173746

**Skin ointment used for treating dermatophytosis and athlete's foot induced by tinea microbe, contains predetermined amounts of active ingredients along with a carrier**

Patent Assignee: ITO M (ITOM-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000212090	A	20000802	JP 999145	A	19990118	200055 B

Priority Applications (No Type Date): JP 999145 A 19990118

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2000212090	A	6	A61K-031/60	

Abstract (Basic): JP 2000212090 A

**NOVELTY** - The skin ointment contains 1-50 g of salicylic acid and zinc oxides, 1-50 g of a mixture containing resorcinol, acrinol, alkyl polyamino ethyl glycine, benzoic acid berberine, isopropyl methyl phenol, chlorination decalinium, benzalkonium chloride, benzethonium chloride, chlorhexidine hydrochloride, chlorhexidine gluconate liquid, acetic acid decalinium and at least one hinokitiols and a carrier.

**ACTIVITY** - Vulnerary; antimicrobial. The ointment was tested for the vulnerary activity. A 59 years old A Mr. male suffering from dermatophytosis between toe and to a periphery was treated by the topical application of an ointment containing 15-25 g of salicylic acid, 15-25 g of resorcinol and 100 cc ethanol liquid for 5 days. Results showed that the skin started to float, and regeneration of the skin was also promoted. A smell also disappeared and itchiness peculiar to the disease disappeared after the 1-3 time coating.

**MECHANISM OF ACTION** - The ethanol (carrier) accelerates the permeability of the skin, to salicylic acid and resorcinol.

**USE** - For treating dermatophytosis and athlete's foot induced by tinea microbe.

**ADVANTAGE** - Excellent in disinfection property, sterilizability, permeability, dropping off property and regeneration property of the

skin.

pp; 6 DwgNo 0/6

Technology Focus:

TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preferred Composition: The carrier is preferably ethanol and has trace amounts of menthol. The ointment preferably contains of salicylic acid and resorcinol in the ratio 3:2, e.g. a composition contains 10-30 preferably 15-20 g of salicylic acid and 6-30 g preferably 10-20 g of resorcinol, along with 100 cc of the carrier.

Title Terms: SKIN; OINTMENT; TREAT; DERMATOPHYTOSIS; ATHLETE; FOOT; INDUCE; TINEA; MICROBE; CONTAIN; PREDETERMINED; AMOUNT; ACTIVE; INGREDIENT; CARRY  
Derwent Class: B05; D21; E19

International Patent Class (Main): A61K-031/60

International Patent Class (Additional): A61K-007/40; A61K-031/045;  
A61K-031/05; A61K-031/155; A61K-031/473; A61K-031/4738; A61K-033/30;  
A61P-017/00; A61P-031/10

File Segment: CPI

Manual Codes (CPI/A-N): B05-A03A; B06-D02; B06-D11; B06-E05; B10-A17;  
B10-A22; B10-C03; B10-C04C; B10-C04D; B10-C04E; B10-E02; B10-E04D;  
B12-M02B; B14-A04C; D08-B09; D09-A01; E05-L; E05-M; E06-D02; E06-D11;  
E06-E05; E10-A17B; E10-A22; E10-C03; E10-C04C; E10-C04D; E10-C04E;  
E10-E02U; E10-E04D

Chemical Fragment Codes (M2):

\*01\* G012 G100 H4 H402 H442 H8 M280 M320 M414 M431 M510 M520 M531 M540  
M782 M904 M905 M910 P241 P943 Q261 Q262 R021 R00851-K R00851-T  
R00851-M

Chemical Fragment Codes (M3):

\*01\* G012 G100 H4 H402 H442 H8 M280 M320 M414 M431 M510 M520 M531 M540  
M782 M904 M905 M910 P241 P943 Q261 Q262 R021 R00851-K R00851-T  
R00851-M

Ring Index Numbers: ; 05835; 05835

Derwent Registry Numbers: 0095-U; 0245-U; 0247-U; 0258-U; 0291-U; 0851-U;  
1017-U; 1520-U

Specific Compound Numbers: R00851-K; R00851-T; R00851-M; RA2H6E-K; RA2H6E-T  
; RA2H6E-M; R00258-K; R00258-T; R00258-M; R11957-K; R11957-T; R11957-M;  
R03468-K; R03468-T; R03468-M; RA1T6D-K; RA1T6D-T; RA1T6D-M; RA01SC-K;  
RA01SC-T; RA01SC-M; R03361-K; R03361-T; R03361-M; R04764-K; R04764-T;  
R04764-M; R06638-K; R06638-T; R06638-M; RA0335-K; RA0335-T; RA0335-M;  
R00247-K; R00247-T; R00247-M; R07345-K; R07345-T; R07345-M; R00291-K;  
R00291-T; R00291-M; R07025-K; R07025-T; R07025-M; R01520-K; R01520-T;  
R01520-M; R00245-K; R00245-T; R00245-M

Key Word Indexing Terms:

\*01\* 803-0-0-0-CL 86472-0-0-0-CL 168-0-0-0-CL 73705-0-2-0-CL, ST  
141897-0-0-0-CL 88623-0-2-0-CL, ST 88640-0-0-0-CL  
90721-0-1-0-CL, ST 90730-1-0-0-CL 1-0-0-0-CL 5781-0-0-0-CL  
866-0-0-0-CL 6-0-0-0-CL

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Ref	Items	Index-term
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E4	1	AN=JP 9237386
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E11	1	AN=JP 9237396
E12	1	AN=JP 9237398